



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-33-LED35-MO-FWA-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] QDF-33-LED35-MO-FWA-D1
 [TESTLAB] Intertek
 [ISSUE DATE] March 28, 2017
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3760
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.19 ft
Luminous Width (90-270)	3.19 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1299	1287	1290
55	1262	1246	1250
65	1206	1186	1191
75	1129	1102	1116
85	1041	998	1015

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	1289.296	1289.296	1289.296	1289.296	1289.296	1289.296	1289.296	1289.296	1289.296	1289.296
2.5	1292.198	1287.021	1287.455	1286.475	1290.834	1286.475	1287.455	1287.021	1292.198	1287.021
5.0	1288.069	1282.811	1282.898	1282.067	1286.593	1282.067	1282.898	1282.811	1288.069	1282.811
7.5	1281.875	1276.710	1275.340	1274.757	1280.176	1274.757	1275.340	1276.710	1281.875	1276.710
10.0	1271.229	1266.282	1266.028	1265.042	1269.047	1265.042	1266.028	1266.282	1271.229	1266.282
12.5	1258.315	1253.411	1252.629	1252.567	1256.064	1252.567	1252.629	1253.411	1258.315	1253.411
15.0	1242.964	1237.222	1236.602	1235.989	1240.477	1235.989	1236.602	1237.222	1242.964	1237.222
17.5	1224.680	1219.143	1218.852	1217.035	1221.295	1217.035	1218.852	1219.143	1224.680	1219.143
20.0	1204.201	1198.386	1197.350	1196.953	1200.252	1196.953	1197.350	1198.386	1204.201	1198.386
22.5	1180.864	1175.656	1174.044	1172.817	1176.543	1172.817	1174.044	1175.656	1180.864	1175.656
25.0	1154.731	1149.257	1147.911	1146.783	1149.976	1146.783	1147.911	1149.257	1154.731	1149.257
27.5	1126.397	1121.878	1119.670	1118.331	1121.971	1118.331	1119.670	1121.878	1126.397	1121.878
30.0	1094.505	1091.188	1087.988	1087.201	1090.698	1087.201	1087.988	1091.188	1094.505	1091.188
32.5	1061.707	1058.390	1055.525	1054.180	1057.931	1054.180	1055.525	1058.390	1061.707	1058.390
35.0	1027.700	1023.260	1020.402	1019.547	1022.033	1019.547	1020.402	1023.260	1027.700	1023.260
37.5	991.516	986.296	983.084	982.489	984.312	982.489	983.084	986.296	991.516	986.296
40.0	951.917	947.546	943.832	943.076	945.903	943.076	943.832	947.546	951.917	947.546
42.5	910.402	907.128	902.317	902.007	905.318	902.007	902.317	907.128	910.402	907.128
45.0	867.560	863.908	860.101	859.109	862.135	859.109	860.101	863.908	867.560	863.908
47.5	823.782	820.105	816.627	815.102	818.505	815.102	816.627	820.105	823.782	820.105
50.0	778.887	774.380	770.586	769.160	771.869	769.160	770.586	774.380	778.887	774.380
52.5	732.648	727.620	723.962	722.610	725.419	722.610	723.962	727.620	732.648	727.620
55.0	683.705	679.464	675.143	673.742	677.269	673.742	675.143	679.464	683.705	679.464
57.5	633.832	630.633	625.196	624.731	628.618	624.731	625.196	630.633	633.832	630.633
60.0	583.352	580.091	575.509	575.038	577.778	575.038	575.509	580.091	583.352	580.091
62.5	533.045	528.767	524.408	524.198	526.529	524.198	524.408	528.767	533.045	528.767
65.0	481.678	476.786	473.643	472.025	475.701	472.025	473.643	476.786	481.678	476.786
67.5	430.602	425.456	422.201	420.813	425.103	420.813	422.201	425.456	430.602	425.456
70.0	377.729	373.965	370.369	369.607	373.600	369.607	370.369	373.965	377.729	373.965
72.5	326.548	322.896	319.201	318.252	323.125	318.252	319.201	322.896	326.548	322.896
75.0	276.142	271.746	269.446	268.646	272.974	268.646	269.446	271.746	276.142	271.746
77.5	226.796	222.667	220.019	219.964	223.237	219.964	220.019	222.667	226.796	222.667
80.0	177.618	174.177	172.236	171.938	175.466	171.938	172.236	174.177	177.618	174.177
82.5	130.039	127.528	126.499	126.083	129.121	126.083	126.499	127.528	130.039	127.528
85.0	85.696	83.192	82.175	82.150	83.551	82.150	82.175	83.192	85.696	83.192
87.5	41.335	39.475	39.674	39.785	41.038	39.785	39.674	39.475	41.335	39.475
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	1289.296	1289.296	1289.296	1289.296	1289.296	1289.296	1289.296
2.5	1287.455	1286.475	1290.834	1286.475	1287.455	1287.021	1292.198
5.0	1282.898	1282.067	1286.593	1282.067	1282.898	1282.811	1288.069
7.5	1275.340	1274.757	1280.176	1274.757	1275.340	1276.710	1281.875
10.0	1266.028	1265.042	1269.047	1265.042	1266.028	1266.282	1271.229
12.5	1252.629	1252.567	1256.064	1252.567	1252.629	1253.411	1258.315
15.0	1236.602	1235.989	1240.477	1235.989	1236.602	1237.222	1242.964
17.5	1218.852	1217.035	1221.295	1217.035	1218.852	1219.143	1224.680
20.0	1197.350	1196.953	1200.252	1196.953	1197.350	1198.386	1204.201
22.5	1174.044	1172.817	1176.543	1172.817	1174.044	1175.656	1180.864
25.0	1147.911	1146.783	1149.976	1146.783	1147.911	1149.257	1154.731
27.5	1119.670	1118.331	1121.971	1118.331	1119.670	1121.878	1126.397
30.0	1087.988	1087.201	1090.698	1087.201	1087.988	1091.188	1094.505
32.5	1055.525	1054.180	1057.931	1054.180	1055.525	1058.390	1061.707
35.0	1020.402	1019.547	1022.033	1019.547	1020.402	1023.260	1027.700
37.5	983.084	982.489	984.312	982.489	983.084	986.296	991.516
40.0	943.832	943.076	945.903	943.076	943.832	947.546	951.917
42.5	902.317	902.007	905.318	902.007	902.317	907.128	910.402
45.0	860.101	859.109	862.135	859.109	860.101	863.908	867.560
47.5	816.627	815.102	818.505	815.102	816.627	820.105	823.782
50.0	770.586	769.160	771.869	769.160	770.586	774.380	778.887
52.5	723.962	722.610	725.419	722.610	723.962	727.620	732.648
55.0	675.143	673.742	677.269	673.742	675.143	679.464	683.705
57.5	625.196	624.731	628.618	624.731	625.196	630.633	633.832
60.0	575.509	575.038	577.778	575.038	575.509	580.091	583.352
62.5	524.408	524.198	526.529	524.198	524.408	528.767	533.045
65.0	473.643	472.025	475.701	472.025	473.643	476.786	481.678
67.5	422.201	420.813	425.103	420.813	422.201	425.456	430.602
70.0	370.369	369.607	373.600	369.607	370.369	373.965	377.729
72.5	319.201	318.252	323.125	318.252	319.201	322.896	326.548
75.0	269.446	268.646	272.974	268.646	269.446	271.746	276.142
77.5	220.019	219.964	223.237	219.964	220.019	222.667	226.796
80.0	172.236	171.938	175.466	171.938	172.236	174.177	177.618

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CANDELA TABULATION - (Cont.)

82.5	126.499	126.083	129.121	126.083	126.499	127.528	130.039
85.0	82.175	82.150	83.551	82.150	82.175	83.192	85.696
87.5	39.674	39.785	41.038	39.785	39.674	39.475	41.335
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	471.40	N.A.	12.50
0-30	1001.02	N.A.	26.60
0-40	1640.3	N.A.	43.60
0-60	2910.57	N.A.	77.40
0-80	3667.89	N.A.	97.60
0-90	3759.68	N.A.	100.00
10-90	3637.67	N.A.	96.80
20-40	1168.9	N.A.	31.10
20-50	1833.9	N.A.	48.80
40-70	1740.78	N.A.	46.30
60-80	757.33	N.A.	20.10
70-80	286.82	N.A.	7.60
80-90	91.79	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3759.68	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.02
10-20	349.39
20-30	529.62
30-40	639.27
40-50	665.00
50-60	605.27
60-70	470.51
70-80	286.82
80-90	91.79
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

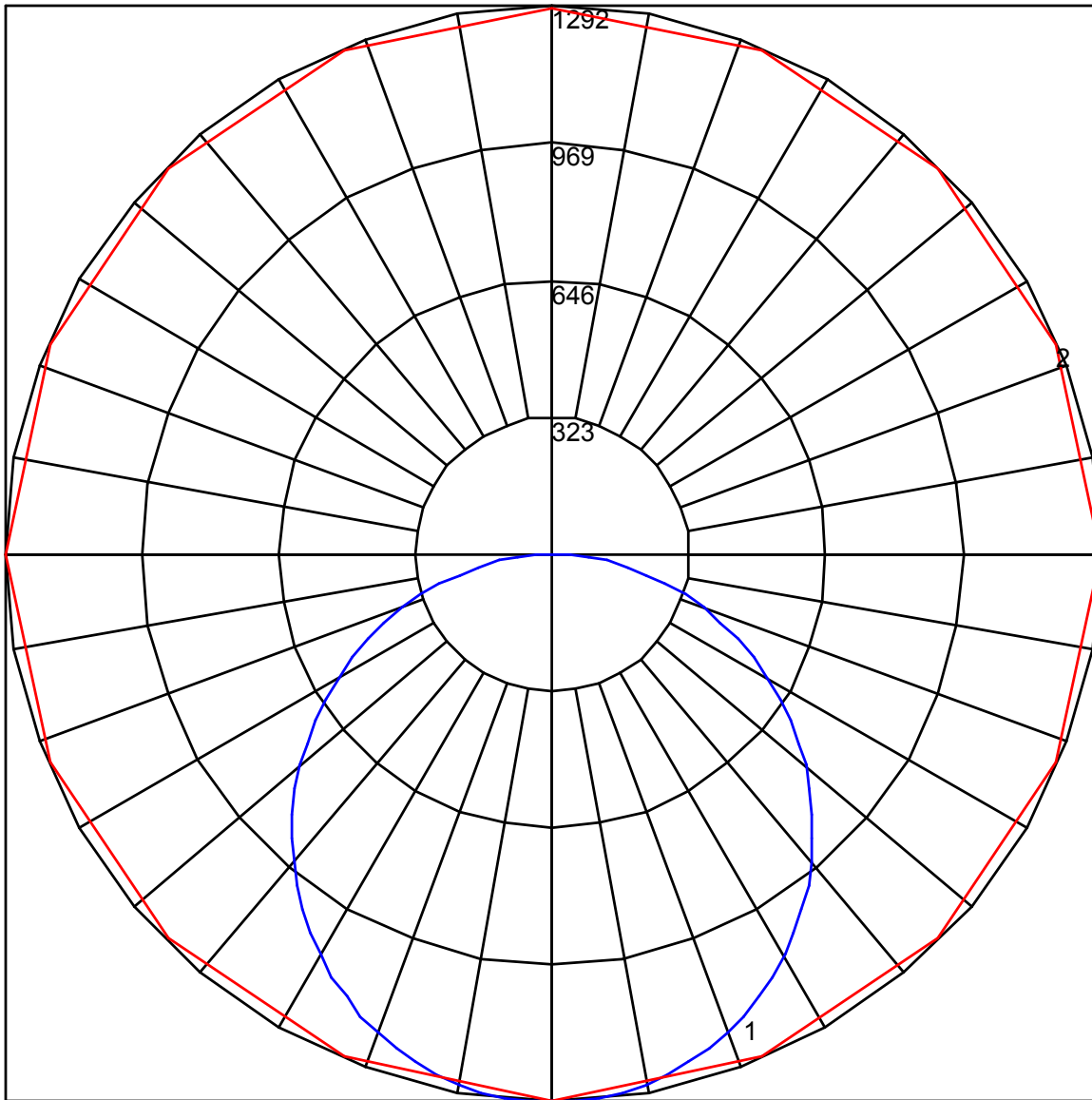
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1292.198 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)